



## Biological Diversity

### Unit A

#### Topic 1

#### **Biological Diversity and Survival**

- A Wealth of Diversity
- Variations for Survival
- The Value of Variation
- Measuring Biological Diversity

#### Topic 2

#### **Habitat and Lifestyle**

- The Niche: What Makes an Organism Special?
- Variation and Competition
- The Broad Niche
- Diversity in the Tropics: The Dangers of a Narrow Niche
- Dependencies Between Species
- Life In the Extreme

#### Topic 3

#### **Passing It On**

- Asexual Reproduction
- Binary Fission
- Asexual Spores
- Asexual Reproduction In Plants
- Budding
- Sexual reproduction
- Bacterial Conjugation

#### Topic 4

#### **Wearing Your Genes**

- Two kinds of inherited Variation
- Dominant or Recessive?
- Nature Versus Nurture
- Changing Our Genetic Information

#### Topic 5

#### **When Plans Change**

- DNA: The Secret of Life
- The Structure of DNA
- The Genetic Code
- The Dance of the Chromosomes
- The Benefits of Variation
- Technology and Variation

#### Topic 6

#### **The Best Solution**

- Artificial Selection in Agriculture
- Accounting For Biological Diversity
- The Theory of Natural Selection

#### Topic 7

#### **The Sixth Extinction**

- Human Impacts on Biodiversity
- Human Impacts on Rainforest Ecosystems
- Human Activities and Extinction

#### Topic 8

#### **Pains and Gains**

- The Role of Zoos in Preserving Biodiversity
- Preserving the Biodiversity of Plants
- A Global Effort